

WHAT IS CLAIMED IS:

1. A fretting resisting roller bearing comprised of a plurality of rolling elements held between inner and outer races with a cage interposed therebetween, characterized in that the oil film of lubricating oil of which the dynamic viscosity at 40°C is 20 to 150 mm²/2 is formed on the raceway surfaces of the inner and outer races, the cage and the rolling elements and grease is enclosed.

2. A fretting resisting roller bearing according to claim 1, wherein said inner and outer races are made of steel and said ~~roller element~~ ^{rolling elements are} is made of ceramics.

3. A fretting resisting roller bearing according to claim 1, wherein said inner and outer races are made of steel and said roller element is made of super-hard alloy.

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